AASP - The Palynological Society

Promoting the Scientific Understanding of Palynology since 1967

Newsletter

September 2016
Volume 49, Number 3

Published Quarterly by AASP - The Palynological Society

AASP-TPS NEWSLETTER

Published Quarterly by AASP - The Palynological Society

September 2016
Volume 49, Number 3

A.A.S.P.

The Palynological Society

The American Association of Stratigraphic Palynologists, Inc. - AASP-The Palynological Society - was established in 1967 by a group of 31 founding members to promote the science of palynology. Today AASP has a world-wide membership of about 800 and is run by an executive comprising an elected Board of Directors and subsidiary boards and committees. AASP welcomes new members.
The AASP Foundation publishes the journal Palynology (triannually), the AASP Newsletter (quarterly), and the AASP Contributions Series (mostly monographs, issued irregularly), as well as several books and miscellaneous items. AASP organises an Annual Meeting which usually includes a field trip, a business luncheon, social events, and technical sessions where research results are presented on all aspects of palynology.

AASP Scientific Medal recipients
Professor William R. Evitt (awarded 1982)
Professor William G. Chaloner (awarded 1984)
Dr. Lewis E. Stover (awarded 1988)
Dr. Graham Lee Williams (awarded 1996)
Dr. Hans Gocht (awarded 1996)
Professor Svein B. Manum (awarded 2002)
Professor Barrie Dale (awarded 2004)
Dr. David Wall (awarded 2004)
Dr. Robin Helby (awarded 2005)
Dr. Satish K. Srivastava (awarded 2006)
Professor Estella B. Leopold (awarded 2013)
Professor Vaughn M. Bryant (awarded 2016)

AASP Honorary Members
Professor Dr. Alfred Eisenack (elected 1975)
Dr. William S. Hoffmeister (elected 1975)
Professor Leonard R. Wilson (elected 1975)
Professor Knut Faegri (elected 1977)
Professor Charles Downie (elected 1982)
Professor William R. Evitt (elected 1989)
Professor Lucy M. Cranwell (elected 1989)
Dr. Tamara F. Vozzhennikova (elected 1990)
Professor Aureal T. Cross (elected 1991)
Dr. Robert T. Clarke (awarded 2002)
Professor Vaughn Bryant (awarded 2005)
Professor Alfred Traverse (awarded 2005)
Professor Bernard Owens (awarded 2011)
Dr. John E. Williams (awarded 2013)
Mr. Paul W. Nygreen (awarded 2013)
Professor Norman Norton (awarded 2016)

AASP Board of Directors Award recipient
Dr. Robert T. Clarke (awarded 1994)
Dr. Thomas D. Demchuk (awarded 2014)

Teaching medal recipients
Professor Aureal T. Cross (awarded 1999)
Professor Alfred Traverse (awarded 2001)
Professor Bill Evitt (awarded 2006)
Professor Vaughn M. Bryant (awarded 2013)
Professor Geoffrey Clayton (awarded 2016)

AASP Distinguished Service Award recipients
Dr. Robert T. Clarke (awarded 1978)
Dr. Norman J. Norton (awarded 1978)
Dr. Jack D. Burgess (awarded 1982)
Dr. Richard W. Hedlund (awarded 1982)
Dr. John A. Clendening (awarded 1987)
Dr. Kenneth M. Piel (awarded 1990)
Dr. Gordon D. Wood (awarded 1993)
Dr. Jan Jansonius (awarded 1995)
Dr. D. Colin McGregor (awarded 1995)
Professor John H. Wrenn (awarded 1998)
Professor Vaughn M. Bryant (awarded 1999)
Dr. Donald W. Engelhardt (awarded 2000)
Dr. David T. Pocknall (awarded 2005)
Dr. David K. Goodman (awarded 2005)
Professor Owen K. Davis (awarded 2005)
Dr. Thomas Demchuk (awarded 2009)
Professor Reed Wicander (awarded 2014)
Professor Fredrick Rich (awarded 2016)
Dr. James B. Riding (awarded 2016)

AASP-TPS NEWSLETTER

Published Quarterly by AASP - The Palynological Society

June 2016
ISSN 0732-6041

Volume 49, Number 3
Jen O'Keefe, Editor

AASP BOOK REVIEW EDITOR

POSITION OPEN - PLEASE SEND LETTER OF INTEREST TO PALYNOLOGYLEXINGTON@GMAIL.COM

AASP WEBMASTER

Fabienne Marret, aaspwebmaster@gmail.com, website: http://www.palynology.org

AASP NEWSLETTER EDITOR

Jen O'Keefe, palynologylexington@gmail.com, 404-A Lappin Hall, Department of Earth and Space Science, Morehead State University, Morehead, KY 40351.

The AASP-TPS Newsletter is published four times annually. Members are encouraged to submit articles, "letters to the editor," technical notes, meetings reports, information about "members in the news," new websites and information about job openings. Every effort will be made to publish all information received from our membership. Contributions which include photographs should be submitted two weeks before the deadline.

Deadline for submission for the next issue of the newsletter is **November 15.** All information should be sent by email. If possible, please illustrate your contribution with art, line drawings, eye-catching logos, black & white photos, colour photos, etc. **We DO look forward to contributions from our membership.**

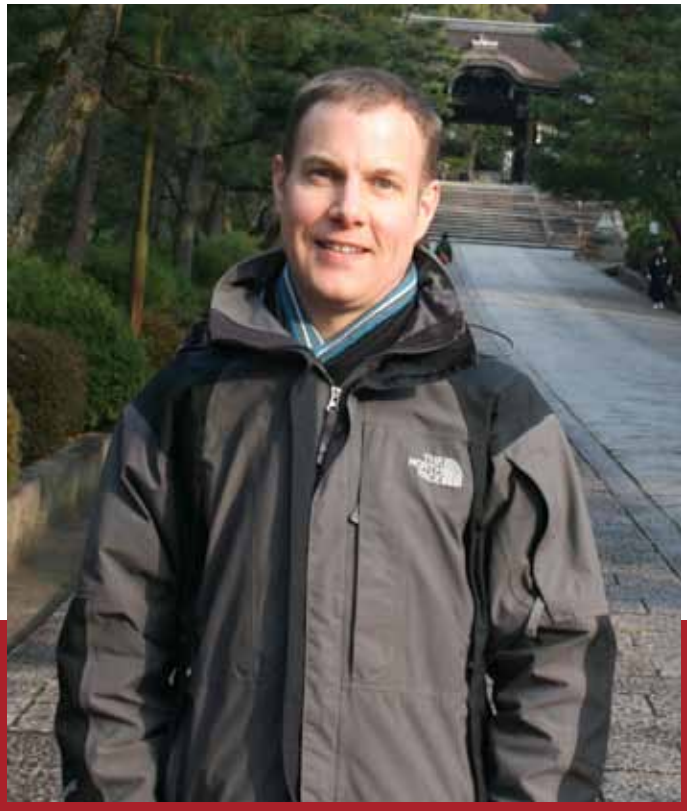
A Message From Our President

This marks my final (and briefest) introduction to the newsletter and it only feels like last week I wrote the last one! It's been a short time since the mid-year meeting of the board and now the society is gearing-up for the Annual Meeting in Houston. It looks like a great programme and should provide a stimulating and informative few days of talks, workshops and somewhat importantly, also of socializing. The committee have worked hard and I'm looking forward to the opportunity to meet many of you shortly. I also now need to focus on the fact I pitched a talk and need to number-crunch a lot of data to make this a personal success.

I have a temporary respite from teaching. I've just finished supervising and co-supervising three M.Sc projects in palynology and my penultimate PhD student has successfully defended his thesis and graduated. It's been a busy year of teaching and university work. The next cohort of M.Sc students in micropalaentology arrives shortly and I start intensive teaching in palynology this December through early February. Quite where the industry will be as we look into the short and medium term is very uncertain. It's not a great time for those starting out. But that we have a healthy number of graduates entering the postgraduate program and wishing to study micropalaeontology is an encouraging sign: There is significant interest in our discipline.

Congratulations are due to all our 2016 professional award winners and also to those awarded the travel grant to the Houston meeting! Details are found in this newsletter. My thanks go to the award committee for their hard work in facilitating the awards round in 2015-16.

It will be my pleasure at Houston to welcome new board members following the recent ballot. President-Elect is Gunn Mangerud and will be joined by new Director-at-Large Niall Paterson and student Director-at-Large Ingrid Romero Valero. Congratulations to all those and I thank outgoing board members Kara Bogus and Kim Bell for their work these past 2 years. I also wish to thank all those who agreed to stand for election. A society is only as successful as its membership and their willingness and enthusiasm to become involved. As I mentioned in my last letter, a chief challenge looking forward will be membership retention as well as looking at ways of energising palynologists to join the society. We can all play our part here to help in the financial health of The Palynological Society. So it leaves me to hand over to our new President, Iain Prince and I look forward with the other board members to help shape our 50th year as a professional society. In fact, we are THE Palynological Society.



I hope you have a great Houston meeting!

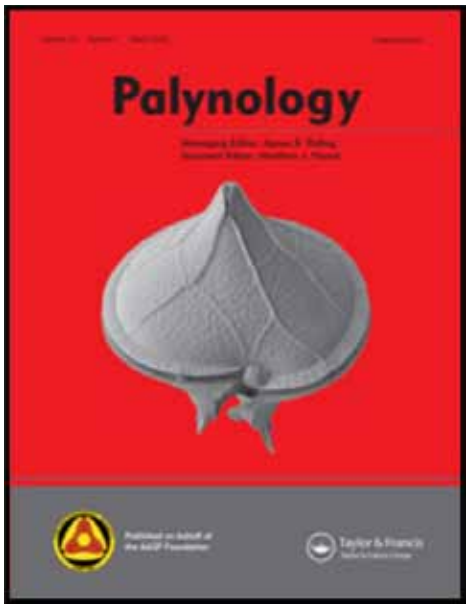
Guy Harrington

MANAGING EDITOR'S REPORT

Since the last Newsletter all paid-up members will now have received their copies of Palynology Volume 40, Part 2, plus Supplement 1. I have recently finalised all the copy for Part 3 of Volume 40. This of course wraps up this volume, and includes nine items. These are eight papers and an obituary of Svein Manum; a full listing appears below. Part 3 will be printed in October, and mailed out during early November; it will be posted online in late October. This one is a great part and the highlights include a paper on the Eagle Ford Group of Texas by Paul Dodsworth and a new dinoflagellate cyst genus from the 'mid' Cretaceous of New Zealand by Poul Schiøler.

In the previous Newsletter, I mentioned our relatively minor backlog of papers which are awaiting paper-publication. In order to eliminate this I am very pleased to report that, as of 2017, we will move to four parts per year. This means significantly increasing our page budget from 426 to 568 per year. The parts will appear separately on the website, but two parts will be printed together in sequence. This means that paid-up members will receive parts 1–2 and 3–4 in May and November respectively. However, the online publication schedule will be February, May, August and November. This is great news for everyone not least because this page increase has been achieved without causing the overall cost to AASP to rise so it will not, in itself, increase membership dues. The backlog of online papers will therefore be eliminated at a stroke and means that, once a paper is accepted, it will not have to wait too long before it is issued on paper. I hope that this good news will stimulate even more submissions to Palynology. The journal is clearly doing well as we have moved from two to four parts per year in the brief space of three years.

Our online submission interface (https://mc.manuscriptcentral.com/tpal) is very user-friendly indeed, however if you have any problems sending us a manuscript, please contact Kathy Robson (Katherine.Robson@tandf.co.uk) and myself. For any other issues, you can get in touch with me and our production editor at Taylor & Francis, Joanna Perry (Joanna.Perry@informa.com). I hope to see you at the next Annual Meeting in Houston.



James B. Riding
Managing Editor, AASP – The Palynological Society
British Geological Survey
Keyworth
Nottingham NG12 5GG
United Kingdom
Tel: +44 (0)115 9363447
E-mail: jbri@bgs.ac.uk

15th August 2016

The contents of Palynology Volume 40, Part 3 (November 2016)

NOEL JACK de JERSEY (1923-2016)

John L. McKellar

One of Australia's three pioneering palynologists, Noel de Jersey, passed away in his 93rd year on the 26th of March 2016 at his Cedar Grove home, just over 40 km to the south of Brisbane.

Noel was a quiet, life-long, high achiever, delving initially into seismology, coal petrology and paleobotany, and subsequently into taxonomic and biostratigraphic palynology, his career of choice. He was a Foundation Member of the Geological Society of Australia, and, in his spare time, a keen golfer and traveller.

Born on 25th February 1923, he lived for five years at coastal Tweed Heads (northernmost New South Wales), as his father was Headmaster of the Coolangatta State Primary School (southeastern Queensland, just across the Queensland – New South Wales State border) where Noel began his early primary schooling. This he completed in 1935 at Goombungee State School, 31 km northwest of Toowoomba and 118 km west–northwest of Brisbane, following his father's transfer there as headmaster.

Attending the Church of England Grammar School (Churchie), Brisbane, from 1936 to 1939, in his final year, at sixteen years of age, he was Dux of the school. This led, in 1940, to Noel winning an open scholarship to The University of Queensland (UQ), from only 20 that were available. Professor Henry Casselli Richards, the inaugural Professor of Geology and Dean of the Faculty of Science at the University, persuaded him into studying geology, which was not his original intention. Professor Richards, in recognising Noel's academic talents, "took him under his wing" and encouraged him to take on an additional subject beyond the required four that he was already enrolled in. That extra subject was geology, and, until then, Noel had considered chemistry to be his career of choice. However, he found geology to be a relatively unexplored area of science. It totally captivated his interest, and he recalled to me once, in conversation, that Professor Richards' lectures were "adventures in geology". Such was the beginning of his fascination with the subject and his life-long commitment to unraveling many of its intriguing mysteries.

Noel completed his BSc degree in 1942, and was awarded First Class Honours two years later, undertaking honours on a part-time basis at UQ, while spending half of his time monitoring the Department of Geology's seismograph station. Accordingly, he was able to collect and collate geophysical data, which resulted in his award of an MSc degree in seismology in 1945. Subsequently, in the Department of Geology, he studied the fossil flora of the Ipswich Coal Measures, his work being published by the Department in 1947, with Dr O.A. Jones as a co-author. This work stands to the present day as a major contribution to the Triassic paleofloral history of the Australasian region. However, Noel's interest in paleobotany was not purely academic, but lay in applying the information gained from such studies to precise dating of the hosting sedimentary rocks. In those early days, no one knew, with any real certainty, the geological ages of rock formations.

In addition to his macrofloral studies, Noel, in 1946-1947, explored the new science of palynology, as he was intrigued by the fact that a spoonful of some types of coal could yield thousands of palynomorphs. He realised that such an abundance of fossil specimens had the potential to facilitate precise dating of the rock formations in Queensland. Initially, he applied a primitive method of numerical analysis of spore-pollen assemblages to assess coals from the (Permo-Triassic) Bowen Basin and the (Late Triassic) Ipswich Coal Measures. Results of these initial studies were published in the Papers of the Department of Geology (UQ).

With the award of a highly competitive CSIRO scholarship, Noel undertook a PhD degree at Imperial College, University of London, from 1946 to 1948. His doctoral thesis was subsequently published as a Paper of the Department of Geology, entitled The Chemical and Physical Properties and Classification of some Queensland Coals. Shortly after returning to Australia, he worked on coal petrology, initially at the CSIRO Coal Research Section in Sydney (New South Wales). Two years later, in 1950, Noel commenced his distinguished career at the Geological Survey of Queensland (GSQ, Department of Mines) in Brisbane. To begin with, he undertook both coal petrology and palynology, using the latter to undertake coal-seam correlation in the (Early Cretaceous) Burrum and Styx coal measures and subsequently in the Rosewood coalfield (Middle Jurassic Walloon Coal Measures in the Clarence-Moreton Basin). To obtain employment in those days, he had to focus his skills on coal and coal exploration.

However, subsequent oil discoveries at Rough Range in Western Australia (1953), and at Moonie (Surat Basin) in Queensland (1961), changed all of this and was the principal factor that promoted and accelerated the fledgling science of palynology in Australia. Hence, Noel started dating the stratigraphic sections penetrated by oil-exploration wells in the latest Triassic – Early Cretaceous Surat Basin, consulting widely to the burgeoning petroleum-exploration industry in its formative years.

In the early 1960s, Noel was promoted to Supervising Geologist in charge of the Coal Research Section of GSQ. However, the increasingly important palynological component of this section was split from the coal-petrology component. In recognition of his innovative expertise and of the potential importance of this emerging science to the geology and economy of Queensland, Noel was appointed to head and develop GSQ's newly created Palynology Section. In 1967, he was designated as Principal Geologist of the Palynology Section.

As geologists had been largely unsuccessful in correlating the Surat Basin succession with that in the adjacent and interconnected latest Triassic – Middle Jurassic Clarence-Moreton Basin, Noel worked on both basins. His ambition was to relate surface exposures of rocks to those in the subsurface. To attain this objective, he was primarily instrumental, in 1963, in gaining approval for the Drilling Branch of the Department of Mines to undertake strategic stratigraphic drilling in addition to coal drilling; this facilitated the provision of fully cored subsurface sections for detailed palynological and lithostratigraphic investigation. Over subsequent years, the Drilling Branch then proceeded to drill representative holes in many rock formations over vast areas of Queensland, to define the geology of the State, with the cored material being stored in the Department's core library (Exploration Data Centre, Zillmere) as a vital reference for geologists.

The first stratigraphic drill hole was spudded in the Marburg Formation in the Clarence-Moreton Basin, and Noel's published palynological results clearly demonstrated that the formation was of Jurassic age, not Late Triassic as had been previously thought. This was his first biostratigraphic study, published in 1963, whereby he correlated his spore-pollen assemblages with Jurassic assemblages described from Western Australia by Basil Balme, another outstanding pioneer.

During his time at GSQ, Noel:

- progressively worked his way through many of the Triassic and Jurassic formations of Queensland, publishing his palynological and biostratigraphic work as he proceeded in a stepwise manner, increasingly building up a secure foundation for future work and defining previously elusive stratigraphic relationships among a number of sedimentary basins in Queensland, with his results having Australia-wide application.

- published many genera and species of palynomorphs, which are firmly entrenched in the palynological literature.

- developed several biostratigraphic schemes for local and international correlation. One such scheme, published in 1976 for local rock correlation, provoked an exceptionally high degree of controversy in some quarters, in that it pointed to the wide development of a hitherto unrecognised hiatus in the basal section of the western Clarence-Moreton Basin and in other basins, between latest Triassic and Early Jurassic rocks. This hiatus was subsequently affirmed to exist and, significantly, is now recognised as a global sequence boundary.

- was awarded his DSc degree in 1974 by UQ, based on his distinguished published works.

- has had a number of fossil taxa named in his honour. These include: the plant-macrofossil Genus *Dejerseya*, which has been reported from Triassic rocks in many sectors of Gondwana; the palynomorph Genus *Jerseyiaspora*, and several species, such as *Verrucosisporites dejerseyi* and *Apiculatasporites dejerseyi*.

- attended the International Palynological Conference (IPC) in Cambridge in 1980, to lobby for the conference to be held in Brisbane in 1988, at the time of Queensland's Bicentennial celebrations and during World Expo 88. He achieved this end at the subsequent conference in Calgary, in 1984, where the decision was made to stage the 1988 IPC in Brisbane. In conjunction with Geoffrey Playford (UQ), he formed the Palaeobotanical and Palynological Association of Australasia to host the event, for which they served as co-chairmen. It was a highly successful conference, which introduced many overseas palynologists and related scientists to Queensland and Australia. At the conference dinner, Noel was presented with Letters of Appreciation of his work as a palynologist from a number of outstanding national and international scientists.

Following 'retirement' from GSQ in March 1983, at the age of 60 years, Noel went on to undertake some of his most outstanding science. Although he dated the Triassic and Jurassic continental formations of south-eastern Queensland with a good degree of accuracy, he aspired, with even more insight, to relate them to the better-dated marine formations of nearby New Caledonia and New Zealand.

Thus, it was Noel's intention, for the Triassic and Jurassic, to study and correlate palynofloral assemblages from New Caledonian and New Zealand marine rocks, which have been dated to stage level by their contained marine invertebrate fossils, with palynofloral assemblages from non-marine strata of southeastern Queensland. Such correlations had the potential of being highly fruitful, as these areas, during the Triassic and Jurassic, actually formed part of Greater Eastern Australia, before rifting away at a later time.

Hence, in 1989, Noel published a paper (co-authored with Jack Grant-Mackie, University of Auckland) on the palynofloras from the Permian, Triassic and Jurassic of New Caledonia. A year later (in co-authorship with Ian Raine, New Zealand Institute of Geological and Nuclear Sciences), he published a highly significant contribution on the Triassic of New Zealand and its biostratigraphic relationships with southeastern Queensland. A further major treatise, on the Early and Middle Jurassic of New Zealand, presently remains unpublished. Further, Noel, in January 2013, a month or so away from becoming a nonagenarian, without any deterioration of his truly gifted mental capacity, as senior author, published a co-authored paper on the location of the Triassic–Jurassic System boundary and the Hettangian– Sinemurian Stage boundary in eastern Australia, again based on correlation with New Zealand palynofloras. Overall, his contributions "in retirement" have facilitated more precise dating and correlation of the Triassic and Early–Middle Jurassic continental successions of eastern Australia.

Noel's palynostratigraphic studies assisted in defining the relationships of rocks within and between sedimentary basins, and with the International Geologic Time Scale. His careful, detailed and insightful contributions to Earth sciences provide an enduring legacy.

John L. McKellar
Petroleum & Gas Geoscience, Exploration Data Centre
Geological Survey of Queensland
Department of Natural Resources and Mines
68 Pineapple Street
ZILLMERE QLD 4034
AUSTRALIA

UPDATES FROM AASP CENEX

by Sophie Warny, Louisiana State University

It has been a while since I provided an update to the AASP members on what is going on in our part of the world. Although our city, Baton Rouge, is recoving from the worst flooding since Katrina, I am happy to report that our laboratory and its collection were not harmed during this difficult time. I also wanted to take a few minutes to update our community on what is going on at CENEX. Marie Thomas and Kate Griener completed their doctoral dissertation last year and both have found a fantastic job with the oil and gas industry in Houston, despite the down turn that the industry is currently facing. Marie is working with HESS and Kate joined the BHP Billiton group. Shannon Ferguson is set to graduate this May and has some interesting job prospects that we hope will materialize. With these projects rounding up, CENEX will be seeking new palynological students starting Fall 2017. Applications should be submitted to LSU in the Spring. Below are some updates on ongoing projects:

1) New ventures in the land of Mowgli – CENEX selected to conduct the palynological analyses of the last two IODP campaigns in the South China Sea and in the Arabian Sea off India.

With the release of the 2016 Disney's movie "The Jungle Book", the world turned its focus for a couple of hours into the intriging jungles of India. The survival of the animals cohabiting with Mowgli and that of the lush tropical forest, normally supported by heavy rainfall, is threatened by a severe drought. Although this drought and the scarcity of water available encourages the animals to propose a truce and not prey on one another, the end of the drought also means the end of the truce and likely the death of Mowgli under the sharp claws of Shere Khan, the Bengal Tiger.

In respect to the drought, the movie intrinsically links life to climate. Safeguarding life as we know it in the face of a changing climate is a complicated issue. Louisiana residents know too well the difficulties one can face adapting to the effects of a warming climate and associated sea-level rise, increased rainfall, flooding, and increased hurricane activity in the Gulf.

Understanding the variability of climate and predicting how the Earth system will respond to changes is not an easy task. Modelers have to combine the various effects influencing our climate to predict its future. Studying past climatic changes and understanding their driving forces is one of the research areas conducted by CENEX in the LSU Department of Geology and Geophysics and Museum of Natural Science. Ongoing anthropogenic atmospheric CO_2 emissions are one of the components that plays a role in our changing climate today, but there are many natural factors that have been changing the Earth's climate over geological time and which continue to have an effect today as well. These include drivers such as plate tectonics, weathering, vegetative cover, albedo, and Earth orbital cycles, just to cite a few. All these components, whether human or nature-driven, can interact with one another positively or negatively and shape our future climate.

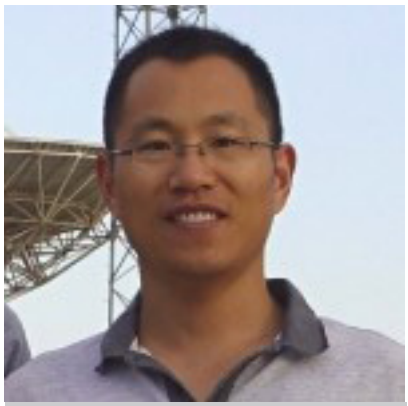
In the case of India, understanding its climatic history cannot be done without understanding the inception of its current monsoonal system. The monsoonal circulation, as most of you know, brings copious amounts of rain to India during the Summer as the land warms more rapidly than the ocean, drawing moist air from the ocean towards the land, delivering rainfall as the moist air masses rise along the high flank of the Himalaya Mountains, cool, and water vapor condenses. The opposite occurs in the winter, as the land cools faster than the ocean, and the dry, cooler air from inland moves towards the ocean. These alternative forces create cycles of hot, wet summers and colder, drier winters. This pattern might be what Rudyard Kipling had in mind when he set his plot. If the summer monsoon with its life-giving rain fails, all of India suffers.

Because the Indian mosoonal system is directly linked to the current tropical position of the subcontinent and the massive development of the Himalayan mountains, we know it did not always exist, and certainly not in its current intensity. To date the inception and quantify the evolution of the

Indian summer monsoon, the IODP (International Ocean Discovery Program) acquired a series of cores in the Arabian Sea from March to May 2015. According to the expedition leaders (Dr. Dhananjai Pandey and **Dr. Peter Clift**, a fellow LSU G&G faculty), the purpose of the Arabian Sea Monsoon Expedition (IODP Expedition 355) was to understand the interaction between the Himalayas and Tibetan plateau uplift and the development and evolution of the Indian summer monsoon. Four core-drilling sites in the eastern Arabian Sea targeted sediments of the Indus submarine fan to investigate the co-evolution of mountain building, weathering and erosion, and climate across multiple time scales. In addition to IODP 355, IODP 349 acquired cores in the South China Sea, focusing on the same questions.

CENEX MS student Mitch Gregory

The palynological lab at LSU (CENEX) has been selected to conduct the palynological analysis of these cores. The research is being conducted by MS student **Mitch Gregory** and post-doctoral fellow **Dr. Yunfa Miao**. At the moment, Mitch and Yunfa's daily tasks are to extract the pollen and spores deposited during the past 23 Ma within the cored sediments, identify them (not a simple task considering the diversity of these tropical regions), reconstruct the vegetation and infer the climatic conditions that existed at the time of sediment deposition. This investigation should provide evidence for the inception of the monsoonal system, and highlight potential strengthening or weakening of the monsoonal system over the geological time-period sampled from the cores.



CENEX research fellow Dr. Yunfa Miao

A future project we are planning will focus on the impact of Asian climate variability on the distribution and speciation of various fauna in the Indo-Malayan Archipelago. This project is a new collaboration between the LSU's Department of Geology and Geophysics and Museum of Natural Science, building on their combined expertise in Asian mammalogy (Dr. Jake Esselstyn), ornithology (Dr. Fred Sheldon), and palynology (**Dr. Sophie Warny**). If funded, this project would support several doctoral students.

2) Shannon Ferguson interns for a second year with the Department of Homeland Security.

CENEX doctoral student S. Ferguson

Shannon Ferguson, CENEX doctoral student, spent her second summer in Houston for a unique internship that is making a major difference for homeland security!

Last summer when toddler Bella Bond was found murdered in a trash bag on shore of Deer Island beach, just outside of Boston, the police had their work cut out for them in order to figure out where the girl came from along with her identity. With the successful identification of rare localized pollen by Homeland Security's only forensic palynologist and Shannon's internship mentor Andy Laurence (a former doctoral student of Dr. Vaughn Bryant), the nationwide search was narrowed. Thanks to palynology, the little girl had her identity back before burial, and her mother and the mother's boyfriend are now in jail to await trial. Homeland Security has since then been receiving an overwhelming influx of requests for pollen analysis from state and local police and other agencies where forensic geographic attribution could help crack a case, not to mention the routine casework and high security clearance level cases. This is in that context that Shannon started her second internship this past summer with the Department of Homeland Security. This year, it was interesting for her to see the vast number of samples that had been sent to Dr. Laurence for pollen analysis compared to the much lower amount they had processed last summer before and during the Bella Bond case. The media attention Homeland Security's forensic pollen program received from the tragic case has lead to many other similarly successful case developments across the country and internationally within the past year. Andy and Shannon are hopeful for the expansion of Homeland's forensic palynology program in the near future. Shannon indicated that thanks to her funding by the LSU MNS curatorial assistantship, she had the great opportunity to begin the curation and digitization of CENEX's hefty pollen collection using the SPECIFY software. With the recent completion of digitizing Shell's modern pollen collection of nearly 1000 different species (over 13,000 microphotographs), and the current digitalization of UNOCAL's pollen collection, her skills as a palynologist have been sharpened.

Although these collections were originally developed for biosteering wells for the oil and gas industry, they are now helping CENEX students and collaborators in a multitude of ways, from biostratigraphy to environmental reconstruction, to forensic. For these donations of collections, CENEX is extremely grateful.

Watch Shannon's discussing the Bella Bond case on the local TV:

http://www.wbrz.com/news/lsu-doctoral-student-helps-crack-baby-doe-case/

3) CENEX selected to conduct the palynological analysis for the WISSARD project.

CENEX MS student Patrick Baudoin

CENEX MS student David Rau

CENEX welcomes a new MS student, **Patrick Baudoin**. Patrick is the final student funded by Warny's NSF CAREER grant, a grant that funded a total of 7 graduate students with fellowships and research funds. Patrick is focusing on reconstructing Antarctic Cenozoic paleoenvironments from organic microfossils that he is recovering from subglacial lakes and ice streams in Western Antarctica. The palynological analyses he is conducting are on subglacial till, shallow subsurface sediments, and grounding zone wedge sediments acquired by the recent drilling campaign WISSARD (Whillans Ice Stream Subglacial Access Research Drilling) project. Additionally, Patrick is analyzing samples we acquired from RISP (Ross Ice Sheet Project) as well as sediments sampled by Caltech from the upstream portion of the Bindschadler (BIS), Kamb (KIS), and Whillans (WIS) Ice Streams. A total of 110 samples have been sampled to date, including 85 from beneath ice stream systems and 25 from beneath the Ross Ice Shelf. His research project is ongoing. **David Rau**, the 6th student funded by the CAREER grant should be graduating in May.

4) A 2015/2016 fruitful period! The CENEX group publishes results in various peer-reviewed journals.

- 2016 Haynes, J.H., MacLeod, K.G., Huber, B.T., Warny, S., Kaufman, A.J., Pancost, R.D., Berrocoso, A.J., Petrizzo, M.R., Watkins, D.K., Zhelezinskaia, I., in press. Southeastern Tanzania depositional environments, marine and terrestrial links, and exceptional microfossil preservation in the warm Turonian. GSA Bulletin.

– 2016 Ferguson, S., Warny, S., Escarguel, G. and Mudie, P. MIS 5e-1 dinoflagellate cyst analyses and morphometric evaluation of *Galeacysta etrusca* and *Spiniferites cruciformis* in southwestern Black Sea. Quaternary International. http://dx.doi.org/10.1016/j.quaint.2016.07.035

– 2016 Levy, R.H., Harwood, D.M., Florindo, F., DeConto, R., von Eynatten, H., Fielding, C., Field, B., Gasson, G., Golledge, N., Kuhn, G., McKay, R., Naish, T., Olney, M., Pollard, D., Sangiorgi, F., Schouten, S., Warny, S., Willimott, V., and SMS Science Team. Antarctic ice sheet sensitivity to atmospheric CO2 variations in the early to mid-Miocene. PNAS, 113(13): 3453-3458.

– 2016 Bart, P.J., Coquereau, L., Warny, S., and Majewski, W. *In situ* foraminifera in grounding zone diamict: a working hypothesis. Antarctic Science. doi:10.1017/S0954102016000055

– 2016 Akyuz, I., Warny, S., Oyebode, F., and Bhattacharya, J. Palynology of the Turonian Ferron-Notom Sandstone, Utah: identification of marine flooding surfaces and Milankovitch cycles in subtropical, ever-wet, paralic to non-marine paleoenvironments. Palynology.
http://dx.doi.org/10.1080/01916122.2015.1014525

– 2016 Warny, S., Kymes, M., Askin, R., Krajewski, K. and Bart, P.J. Remnants of Antarctic vegetation on King George Island during the early Miocene Melville Glaciation. Palynology.
http://dx.doi.org/10.1080/01916122.2014.999954

– 2015 Clauzon, G., Suc, J.-P., Jouannic, G., DoCouto, D., Melinte-Dobrinescu, M.C., Jolivet, L., Lebret, N., Mocochain, L., Popescu, S.-M., Martinell, J., Domenech, R., Rubino, J.-L., Warny, S., Gorini, C., Bache, F., Rabineau, M., Estrada, F. New insights on the Sorbas Basin (SE Spain): the onshore reference of the Messinian Salinity Crisis. Marine and Petroleum Geology.

– 2015 Griener, K.W., and Warny, S.. *Nothofagus* pollen grain size as a proxy for long-term climate change: an applied study on Eocene, Oligocene, and Miocene sediments from Antarctica. Journal of Palaeobotany and Palynology.

– 2015 Griener, K., Warny, S., Askin, R.E., Acton, G. Early to middle Miocene vegetation history of Antarctica supports eccentricity-paced warming intervals during the Antarctic icehouse phase, Global and Planetary Science Letters. http://dx.doi.org/10.1016/j.gloplacha.2015.01.006

– 2015 Babcock, S., Bart, P.J., Warny, S., & Youngman, B., 2015. Discover Clues from a Colder Climate with GeoMapApp. *Earth Exploration Toolbook*.
http://serc.carleton.edu/eet/icestream/index.html.

– 2015 Thomas, M., Pocknall, D., Warny, S., Bentley, S., Nittrouer, C., and Drozler, A. Assessing paleobathymetry and sedimentation rates using palynomaceral analysis: A study of modern sediments from the Gulf of Papua, offshore Papua New Guinea. Palynology.
http://dx.doi.org/10.1080/01916122.2015.1014526

Summer School on Upper Palaeozoic Energy Resources of European Russia at Kazan Federal University

Annette E. Götz

The Summer School GeoKazan 2016 was held 25-30 July at the Institute of Geology and Petroleum Technologies, Kazan Federal University, Tatarstan. Participants and presenters from 10 countries (Russia, Germany, Italy, Spain, UK, Syria, South Africa, Bolivia, Ecuador, and USA) met in Kazan to discuss and learn about the Upper Palaeozoic Energy Resources of European Russia, with a focus on sedimentology, geochemistry, and organic facies.

The Republic of Tatarstan is the oldest oil-producing region of the Russian Federation and a leader in bitumen reserve research and development. Sedimentary sequences of this region are of enormous economic interest for the future exploration and exploitation of hydrocarbon and mineral resources in Russia. Kazan Federal University has a long tradition in education in Earth and Petroleum Sciences and continuously contributes with cutting-edge research to the future development and production of energy resources in Russia.

From this background and building on the university's international relationships, scientists of the Institute of Geology and Petroleum Technologies and international collaboration partners from Germany, Italy, UK and USA presented a broad program to a group of 12 international MSc and PhD students covering carbonate sedimentology, basin analysis, biostratigraphy and palynofacies, 3D modelling and GIS, and regional aspects of the geology of the Volga-Ural Petroleum Province. Lectures and practicals, including the study of drilling cores of the regional Carboniferous platform reservoir rocks, addressed various aspects of hydrocarbon exploration, integrating regional and global examples of Late Paleozoic source and reservoir rocks. Annette E. Götz, Keele University, presented palynofacies and palynostratigraphy as hydrocarbon exploration tools. A one day field trip to the Permian continental type sections of the Volga-Kama region led by Vladimir Silantiev, Kazan University, completed the extensive program of the summer school.

Besides geology, Kazan offered a unique cross-cultural atmosphere, combining Asia and Europe, Islam and Orthodoxy, and the Russian and Tatar cultures – and thus was for all participants and presenters an excellent place to meet and exchange scientific ideas.

Many thanks go to Danis K. Nurgaliev (Director of the Institute of Geology and Petroleum Technologies), Vladimir V. Silantiev (Head of the Department of Paleontology and Stratigraphy), and the Kazan team for hosting this event. We hope to see you all again in 2017!

Photo: Participants and presenters of the Kazan Summer School GeoKazan 2016 in front of the Geological Map of Russia, Institute of Geology and Petroleum Technologies, Kazan Federal University.

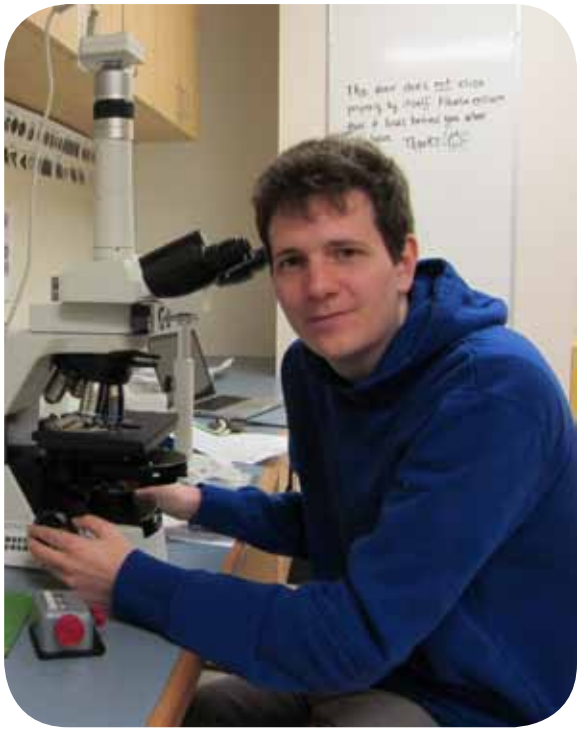
Congratulations to the recipients of 2016 Student Travel Grants for the Annual Meeting!

Morgan K. Black - Morehead State University

I am a senior Geology major at Morehead State University. For the last year and a half I have been conducting Holocene paleoecology research under Dr. Jen O'Keefe as part of the "Boudreaux Bend" Project. This project characteried 600 years of ecological change in a drainage basin in Eastern Kentucky using palynology and paleobotany. Over this time period, three distinct forest ecosystems surrounding the drainage basin recorded first cooling then warming climate, as well as transition to modern farming practices. I will attend the joint meeting of TSOP-ICCP-AASP in Houston to present the final results of palynological and paleobotanical investigations completed during this project. Funding from AASP-The Palynological Society will help me continue to build my professional network while still an undergraduate.

Maximilien Genest - University of Victoria, BC, Canada

The preliminary results of my research on the effects of oil spills on phytoplankton through the use of dinoflagellate cyst records will be presented at the joint TSOP-AASP-ICCP meeting in Huston, Texas. This work is based on two sediment cores from Prince William Sound, Alaska (USA). Both cores have been well dated using 210Pb and 137Cs and both have high sedimentation rates (1.3 cm yr-1 and 1.1 cm yr-1) allowing for annual to biannual paleoreconstructions. The cores were subsampled every centimeter for a total of 110 samples. All samples were treated using a standard palynological processing technique to extract dinoflagellate cysts. Cysts were then analyzed using a Nikon Eclipse 80i light microscope at 600x and 1000x magnifications and an average of 300 cysts was counted per sample. In both cores, cysts were abundant, diverse and well preserved with an average cyst assemblages being characterized by an equal number of cysts produced by autotrophic and heterotrophic dinoflagellates. Changes in the sedimentary sequence of dinoflagellate cysts were analyzed by determining cyst relative abundances, species richness, total cyst concentrations and fluxes before, during and after the oil spill. This analysis provided insight into how dinoflagellates are affected by oil spills and a timeline for their recovery



SOCIETY AWARDS

Martin Farley, Awards Committee Chairman

AASP-TPS has a number of awards that recognize accomplishments of palynologists. Here I deal only with awards not directly associated with society officers or students (other than the Undergraduate Awards) or awards at the Annual Meeting.

The deadline is March 1 of each year for submission of nominations to the Awards Committee. The basic nomination procedure is similar for most awards (main letter of nomination accompanied by letters of support, these to include documentation of accomplishment). Details on the procedures for each award can be found at http://www.palynology.org/content/awardproced.html, while a complete list of the people who have received these awards in the past can be found on the third page of this newsletter.

Distinguished Service Award

This award recognizes individuals who have generously supported the Society with their work and resources over a number of years and whose efforts have advanced the Society. Typically, recipients have held society office, participated in committees, or dealt with publications or meetings. There have been 19 recipients of this award, most recently Fred Rich and Jim Riding in 2016.

Honorary Life Membership

This is actually the oldest AASP award with the first awards dating to 1975. This award is given either to people making fundamental contributions to the science of palynology or people who have given the AASP devoted service or both. Honorary Life Membership has been awarded to 16 individuals, most recently to Norm Norton in 2016.

Medal for Excellence in Education

This medal recognizes leaders in palynological instruction. Nominees are expected to have considerable experience and accomplishment in all aspects of academic education involving palynology, including training of new scientists for the field. The medal has been awarded four times, most recently to Geoff Clayton in 2016.

Medal for Scientific Excellence

The Society's highest award for achievment in the science of palynology is the Medal for Scientific Excellence. The official description lists "fundamental contributions to the development of the science of palynology" as the main criterion. Recipients should have a substantial research history in the field. The medal has been awarded 11 times in the history of the Society, most recently to Vaughn Bryant in 2016.

Undergraduate Student Awards

In order to support the teaching of palynology at the undergraduate level, and to encourage and reward student achievement, AASP-The Palynological Society offers the AASP Undergraduate Student Award.

The awards are made annually to students nominated by faculty members teaching courses with significant palynological content. One student recipient, with meritorious achievement in some aspect of the course, can be nominated per year per institution.

The following institutions already have approved courses from which undergraduate students may be selected: University of Southampton, Louisiana State University, University of Tennessee-Knoxville, University of Portsmouth, Morehead State University, and Trinity College Dublin.

A faculty member, who is a member in good standing of AASP, and who teaches an appropriate course, may nominate the course using the Registration Format found below. This should be cut-and pasted into a word document and sent to the awards committee chair at: mbfarley@sigmaxi.net. Upon approval by the Awards Committee, faculty teaching approved courses may nominate a student to receive the award at any time of the year on the basis of their qualifying criteria by sending the name, address, and email address of the recipient to the Awards Committee Chair. Additionally, faculty must send the name of the winner, a paragraph about their achievements, and a photograph to the newsletter editor (palynologylexington@gmail.com) for inclusion in the June newsletter each year.

Each award consists of one year's free membership in the Society to include two issues of the Society's publications, the journal Palynology and the quarterly newsletter, discounts on other AASP publications, discounted registration fees at Society meetings, and eligibility for Society awards.

AASP Undergraduate Student Award – Course Registration Form

Nominating faculty member:

University/Higher Education Institution:

Course Name:

Course Description and level:

Average number of students registered in the course annually:

Number of hours of palynological instruction:

Criteria used to determine the winning student:

Date:

Election Results

Well, the election results are finally in. Congratulations to Gunn Mangerud, Niall Paterson & Ingrid Romero Valero who will become President-Elect, Director-at-Large and Student Director-at-Large respectively from the next outgoing board meeting. Thank you also to those that stood and were unelected. Without your willingness to stand there would be no real ballot. To that end, the board will start working to ensure we have more individuals willing to stand for election next year; especially for president-Elect and some of the other positions. It was also noted that the numbers voting was significantly down. Voicing your opinions is really important, after all, it's your society. Without your willingness to stand for positions of responsibility and to stand up and be counted the society withers. So, please consider standing when members of the nominations committee or others have that quiet chat with you. It really isn't that much work and it can be fun bossing about the previous Presidents – watch out Guy and Jen!

- Iain Prince

Correspondents Wanted!

Not sure that you want to run for office but want to help the society? Become a newsletter correspondant, either formally or informally! We welcome student and professional news, book reviews, reports on meetings, workshops, etc. Submissions are due on November 15, February 15, May 15, and August 15, annually.

Current vacancies include:

- Book Review Editor
- India
- South Africa

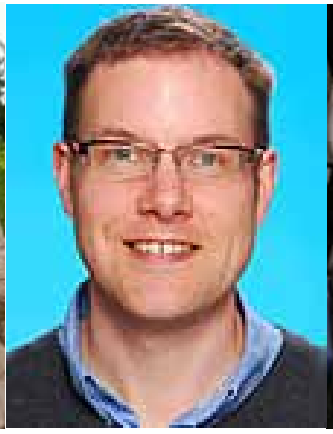
Our newsletter is only as good as the news we recieve. Please stay in touch!

- Jen O'Keefe

Introducing your 2016-2017 Board of Directors!

Iain Prince
President

Gunn Mangerud
President-elect



Guy Harrington
Past-president

Jim Riding
Managing Editor

Steve Stukins
Secretary

Rebecca Hackworth
Treasurer

Katrin Ruckwied
Director-at-Large

Niall Paterson
Director-at-Large

Ingrid Romero
Student Director-at-Large

Fabienne Marret
Webmaster

Jen O'Keefe
Newsletter Editor

CONSIDER HELPING OUR MISSION

AASP FOUNDATION CENTURY CLUB

What?

The Century Club of the American Association of Stratigraphic Palynologists Foundation is an organization founded by the Trustees of the Foundation in order to provide persons with the opportunity to support activities of the AASP Foundation.

Why?

1. To develop an established level of giving that will continue to provide a solid financial base for the Foundation.
2. To provide unrestricted funds to support the various publishing activities of the Foundation.
3. To provide a meaningful organization and method of recognition of dedicated "friends" of the AASP Foundation.

How?

Your tax-deductible contribution of $100 or more to the AASP Foundation entitles you to belong to the Century Club. The 2016 "membership" drive is on now. Your contribution may be made by personal check or by a pledge which is ***payable on or before*** **December 31, 2016.**

Join!

To join the Century Club, simply complete the attached Contribution/Pledge Form and mail to the address listed below.

The AASP Foundation is a 501 (c)(3) not-for-profit, public organization registered in the United States. This means that contributions to the AASP Foundation are fully deductible on your U.S. Federal Income Tax return. Also, many employers have a matching gift program whereby they match your personal gift to not-for-profit organizations. It is well worth the effort to explore this possibility concerning your gift to the AASP Foundation.

2016 AASP Foundation Century Club Contribution Form

Name: _____

Address: _____

_____

_____

Mail to: Robert T. Clarke, Treas.
AASP Foundation
3011 Friendswood Dr.
Arlington, TX 76013-2033

Contribution Enclosed: $_____ **I wish to pledge: $**_____

THE 50TH ANNUAL MEETING OF AASP – THE PALYNOLOGICAL SOCIETY ~THE GOLDEN ANNIVERSARY MEETING~

HELD JOINTLY WITH CIMP AND THE MICROPALAEONTOLOGICAL SOCIETY PALYNOLOGY GROUP

NOTTINGHAM, UK – 3rd–7th SEPTEMBER 2017

Convenors:
James B. Riding (BGS)
Jan A.I. Hennissen (BGS)
Maria Wilson (BGS)
Matthew J. Pound (Northumbria University, representing TMS)
Reed Wicander (CMU, Mount Pleasant, USA, representing CIMP)

SECOND CIRCULAR

The 50th annual meeting of AASP – The Palynological Society will be held at the British Geological Survey (BGS), Keyworth, Nottingham NG12 5GG between the 3rd and 7th of September 2017. This will be the seventh time our yearly meeting has been held in Europe, and only the third occasion it has been in the UK.
This conference is to be held jointly with CIMP and The Micropalaeontological Society (TMS) Palynology Group. The team of convenors look forward to welcoming you to the headquarters of BGS for this three-day meeting with the opportunity to participate in two one-day field trips to widely geologically contrasting areas of the East Midlands of England. We hope to make this annual meeting extra special because it is the 50th such event! This announcement is the first one, and the convenors will begin planning in earnest during early 2016. The basic plan is detailed below; the fine details will be fleshed out during the months to come. We intend to offer participants a designated conference hotel in central Nottingham. Other accommodation, of course, will be in plentiful supply. BGS HQ is located at Keyworth which is ca. 7 km south of downtown so we will run a return bus service each day so that delegates can travel easily between the conference hotel and the BGS office. Other public transport solutions are also available! Morning tea, lunch and afternoon coffee will be all included in the registration package.

Delegates have the opportunity of going on a one-day pre-conference field excursion to the stunning Peak District of Derbyshire to examine Carboniferous carbonate and siliciclastic sedimentary rocks on Sunday 3rd September. The icebreaker will be held on that evening. The conference dinner will be on Tuesday 5th September, and we hope to book the Long Room at the legendary Trent Bridge cricket ground immediately south of downtown Nottingham. Trent Bridge is widely held to be the most beautiful of all our cricket stadia, and has witnessed many famous tussles between England and our distinguished pantheon of cricketing adversaries from around the world. We intend to hold the now-traditional AASP-TPS business evening at a suitable venue in central Nottingham on Wednesday 6th September.

No specific social event is (at this stage) planned for the evening of Monday 4th September. There will be a post-conference field trip to Bradgate Park in Leicestershire on Thursday 7th September where you will have the opportunity to hunt for (but not collect!) Ediacaran fossils. You will see the site where the very first representative of this world famous biota was discovered in the early 1960s.

Please put September 3rd–7th September 2017 in your calendars for AASP 2017. Subsequent circulars will provide details of the conference hotel, registration, scientific programme etc. If you would like to offer any workshops, offer sponsorship etc., please get in touch.

We hope to welcome you to Keyworth for the golden anniversary meeting in 2017!

Jim Riding (on behalf of the organising committee)

Conference plan:

Saturday 2nd September 2017 – arrival in the Nottingham area

Sunday 3rd September 2017 – pre-conference field trip to the Peak District of Derbyshire (Carboniferous sedimentary and igneous) rocks]/arrival/icebreaker at the conference hotel

Monday 4th September 2017 – Day 1 of conference – free evening in Nottingham's glittering downtown area

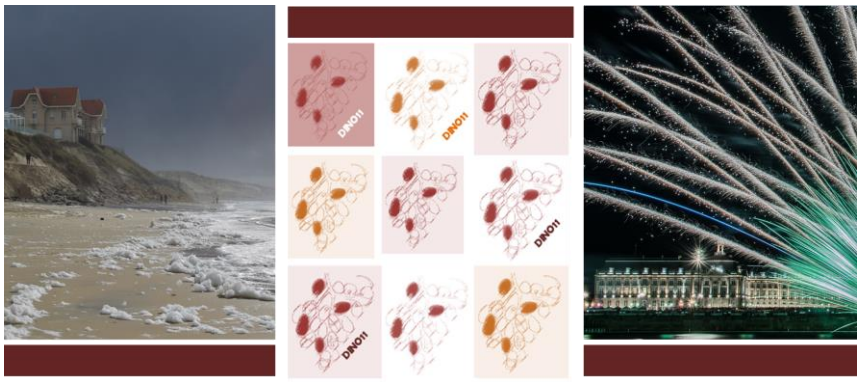
Tuesday 5th September 2017 – Day 2 of conference – evening activity = conference dinner (planned to be) at Trent Bridge Cricket Ground possibly with guest speaker(s)

Wednesday 6th September 2017 – Day 3 of conference – evening activity = AASP-TPS informal business evening; venue to be decided

Thursday 7th September 2017 - post-conference fieldtrip to Bradgate Park, Charnwood Forest, Leicestershire [Precambrian metasediments, Ediacaran fossils, and some younger rocks]/departure

Friday 8th September 2017 - departure

The BGS Rock Walk. Photo courtesy of James Riding.



2nd Circular and Call for Workshop Proposals

11th INTERNATIONAL CONFERENCE ON MODERN AND FOSSIL DINOFLAGELLATES

17 to 21 July 2017, Bordeaux (France)

DINO11, the 11th international conference on MODERN AND FOSSIL DINOFLAGELLATES, will be held at **Bordeaux University** (Talence site), France, during July 17-21, 2017.

The scientific program will be devoted to the latest developments in studies of living and fossil dinoflagellates, this group being one of the most important among planktonic and benthic marine microalgae, and as such gathering both biological and geological interests. In keeping with the tradition of this conference series, the program (**see the draft program below**) of this meeting (held every 3–5 years only) will consist of oral presentations (talks, posters), selected from the submitted abstracts, and supplemented by a small number of invited and keynote talks.

Conference Website

All information about the conference can be found at the conference website
http://laplf.org/dino11/news.htm

Draft program

Example for Monday 17th July

Registration desk opens at 9.00 in OASU B18N Building (Talence site of Bordeaux University, Allée Geoffroy Saint Hilaire)
12.00 Free lunch
13.30 Conference welcome and opening, Session 1 and 2
19.30 Ice breaker

Schedule outline for the week:

	Morning		Afternoon	*Event*
Monday 17/07	Registration 9h	*Free lunch*	Welcome / Session 1 & 2 13h30-19h	***Ice-breaker***
Tuesday 18/07	Session 3 & 4 8h-12h40	*Lunch*	Session 5 & 6 14h-18h40	***Free evening***
Wednesday 19/07	Session 7 & 8 8h-12h40	*Lunch*	Session 9 & 10 14h-18h40	***Gala Diner***
Thursday 20/07	Session 11 & 12 8h-12h40	*Lunch*	AG, next meeting 14h-18h40	***Free evening***
Friday 21/07	Awards , Workshops	*Free lunch*	Free/ Workshops	

Preliminary session list and scientist involved:

1. MODERN DINOFLAGELLATES

1.1. Biodiversity and systematics, SC: Lemée Rodolphe & Nicolas Chomérat (from the organization committee); Mona Hoppenrath (German Centre for Marine Biodiversity Research, Wilhelmshaven, Germany); Jane Lewis (School of Life Sciences, University of Westminster, UK); Antonella Penna (Lab. of Environmental Biology, University of Urbino, Italy)

1.2. Dinoflagellate life cycles and nutritional strategies, SC: Raffaele Siano (from the organization committee); Don Anderson (Woods Hole Oceanographic Institution, Woods Hole, MA, USA); Charles Delwiche (Department of Biology, University of Maryland, USA)

1.3. Dinoflagellate ecology, SC: Yolanda del Amo (from the organization committee); Elisa Berdalet (Institut de Ciències del Mar (CSIC) de Barcelona, Spain); Kazumi Matsuoka (Institute for East China Sea Research, Nagasaki University, Japan); Don Anderson (Woods Hole Oceanographic Institution, Woods Hole, MA, USA); Sofia Ribeiro (Geological Survey of Denmark and Greenland – GEUS, Denmark)

1.4. Toxic dinoflagellates: from cells to cysts, SC: Mohamed Laabir (from the organization committee), Marianne Ellegaard (Department of Biology, University of Copenhagen, Denmark), Kazumi Matsuoka (Institute for East China Sea Research, Nagasaki University, Japan), André Rochon (Institut des sciences de la mer de Rimouski - ISMER, Université du Québec à Rimouski, Canada)

1.5. Marine to freshwater transition and gradient in the dino world, SC: Martin J. Head (Department of Earth Sciences, Brock University, Canada); Susan Carty (Heidelberg University in Tiffin, Ohio, USA)

1.6. Modern dinoflagellates and cysts: what we can learn from sediments, SC: Kenneth Neil Mertens (from the organization committee); Vera Pospelova (School of Earth and Ocean Sciences, University of Victoria, Canada)

2. FOSSIL DINOFLAGELLATES

2.1 Neogene to modern dinocysts in palaeoceanographic studies, SC: Aurélie Penaud (from the organization committee); Stijn De Schepper (Uni Research Climate and Bjerknes Centre for Climate Research, Bergen, Norway); Fabienne Marret-Davies (School of Environmental Sciences, University of Liverpool, UK)

2.2. Mesozoic and Cenozoic dinocyst stratigraphies, SC: Edwige Masure & Daniel Michoux (from the organization committee); James B. Riding (British Geological Survey, Keyworth, UK)

2.3. Phanerozoic and deep time scales, SC: Thomas Servais (from the organization committee); Jörg Pross (Paleoenvironmental Dynamics Group, Institute of Earth Sciences, Heidelberg University, Germany); Appy Sluijs (Marine

Palynology and Paleoceanography, Laboratory of Palaeobotany and Palynology, Dept. of Earth Sciences, Faculty Geosciences, Utrecht University, Netherlands)

2.4. Dinocyst systematics, SC: Martin J. Head (Department of Earth Sciences, Brock University, Canada); Marianne Ellegaard (Department of Biology, University of Copenhagen, Denmark)

2.5. Dinocyst chemistry and preservation / carbon cycles, SC: Gerard Versteegh (Alfred Wegener Institute, Bremerhaven, Germany; MARUM, Bremen University, Germany); Kara Bogus (International Ocean Discovery Program, Texas A&M University, USA); Stephen Louwye (Ghent University, Belgium)

2.6. Integrated studies derived from dinocysts: recent past to modern scales, SC: Anne de Vernal, (GEOTOP, Université du Québec à Montréal, Canada) ; Marit-Solveig Seidenkrantz (Aarhus University, Denmark) ; Karin Zonneveld (Department of Historical Geology/Palaeontology, University of Bremen/MARUM, Germany)

Abstract Submission

Abstract submission will be open **from 1 December, 2016**
Abstract submission deadline is 15 March, 2017

Abstract submission information link: ***active from 1 December 2016***

Authors will be notified about the selection of their abstract regarding the type of presentation (oral or poster) by 15 April, 2017.

Registration

Registration for the conference will be open **from 1 December, 2016**
Deadline for early registration is 15 February, 2017
Registration link: ***active from December 2016***

	Before 15th February 2017		After 15th February 2017	
Professional full week	**€300**		**€400**	
Student	**€150**		**€250**	
Professional/student daily rate	**€75**	**Monday**	**€100**	**Monday**
		Tuesday		**Tuesday**
		Wednesday		**Wednesday**
		Thursday		**Thursday**
		Friday		**Friday**
Conference dinner	**€60**		**€90**	

Registration fee includes: conference registration and access to all conference sessions, conference material and conference bag, icebreaker on the 17th of July 2017, lunches and all coffee breaks throughout the conference.
Registration fee does not include: excursion tour, transportation and accommodation, additional workshop fees.

Daily rate fee includes access to all conference sessions, conference material and conference bag, lunch (for full day sessions) and all coffee breaks throughout the day.

Call for Workshop Proposals

Additional workshops will be organized in parallel to the meeting: any proposals are welcome (send an e-mail to **dino11@mail.epoc.u-bordeaux1.fr**).
No workshop proposition will be considered after the **mid-January 2017**.

Accommodation

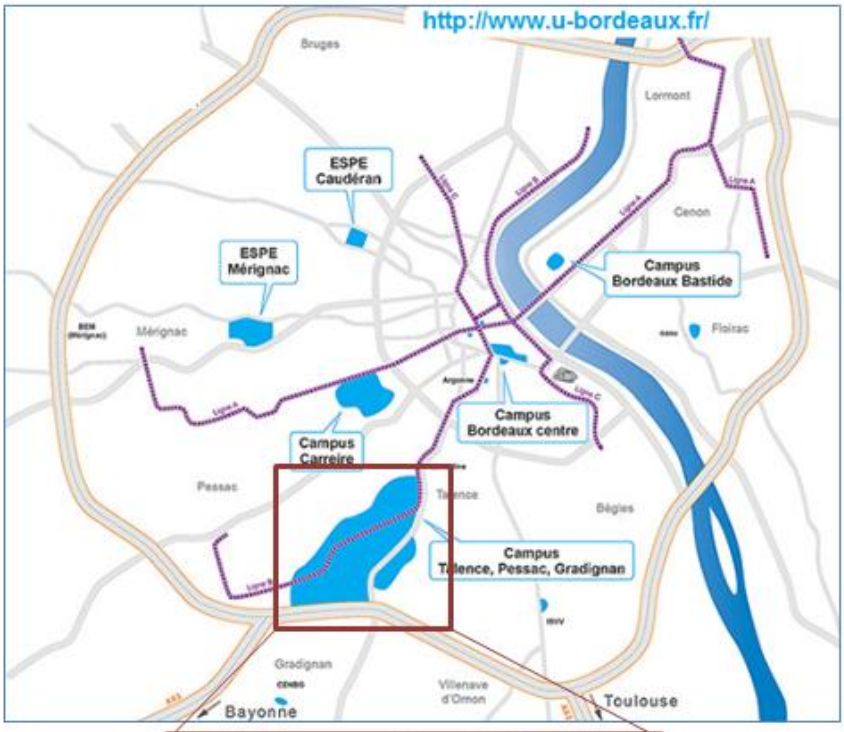
Many convenient hotels are located close to the University or downtown, for details please visit the accommodations link on the conference website.
http://laplf.org/dino11/accommodation.htm

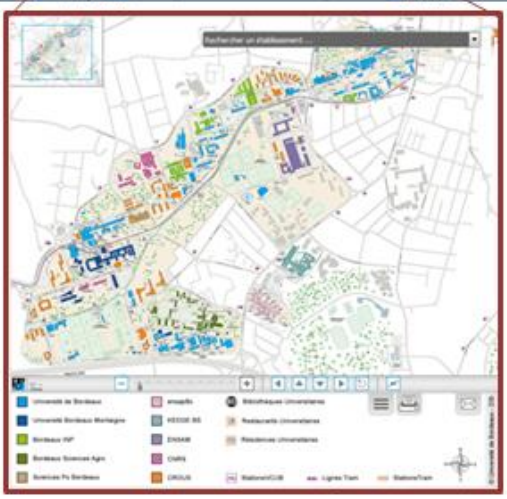
Travel information

Travel information link: http://laplf.org/dino11/travel%20information.htm

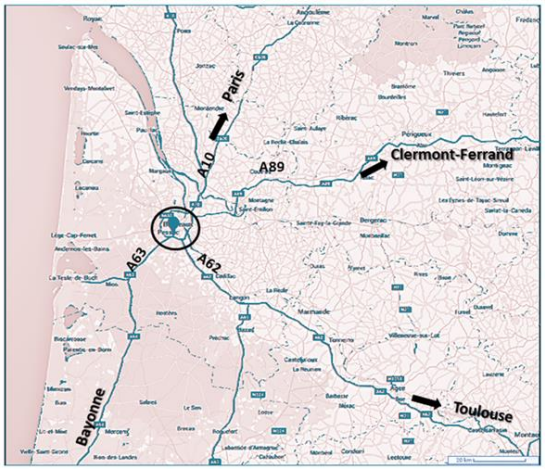
The meeting will take place on the Campus of the University of Bordeaux (B18N Amphitheater).

This campus is spread out over 5 kilometers mainly in the small towns of Talence and Pessac within the Bordeaux agglomeration (**http://www.u-bordeaux.fr/Vie-des-campus/Services-numeriques/Cartographie-des-campus/Cartes-interactives/Campus-Talence-Pessac-Gradignan**).





To join us:



● **by car:** one can reach Bordeaux by the main highways (A10 from Paris, A63 from the south, A89 and A62 from the east)

● **by bus:** some bus companies offer very cheap travel
See the following websites:
http://www.ouibus.com/
http://www.eurolines.fr/en/
http://www.isilines.fr/fr

● **by train:** a lot of connections, either to the Bordeaux main train station or to the Pessac city train station.
See: http://en.voyages-sncf.com/en/

● **by plane:** Bordeaux (Mérignac) airport, Air France, KLM, British Airways and many low-cost companies connect Bordeaux worldwide
Find your flight on: http://www.bordeaux.aeroport.fr/en

Visas
Participants need to ensure that they have the proper travel documents and visas to enter France. See required documents here: http://www.diplomatie.gouv.fr/en/coming-to-france/getting-a-visa/

Organisation

Local Organizing Groups:
Frédérique **Eynaud**, Laurent **Londeix**, Yolanda **Del Amo**, with assistance from Marie-Hèlène **Castera**, Linda **Rossignol** and Ludovic **Devaux**
Laboratoire EPOC, Université de Bordeaux, http://www.epoc.u-bordeaux.fr
Honorary president: Jean-Louis Turon

French partners:
– Nicolas **Chomerat** (IFREMER, Station de Biologie Marine de Concarneau, BP 40537, F-29185 Concarneau Cedex)
– Mohamed **Laabir** (Center for Marine Biodiversity, Exploitation and Conservation (MARBEC), Université de Montpellier, 34095 Montpellier Cedex 5)
– Rodolphe **Lemée** (Observatoire Océanologique de Villefranche sur mer, Université Pierre et Marie Curie, Laboratoire d'Océanographie de Villefranche, CNRS UMR 7093 -BP 28, 06234 Villefranche-sur-mer)
– Edwige **Masure** (UMR CNRS/MNHN/UPMC 7207 Centre de recherche sur la paléobiodiversité et les paléoenvironnements, Université Pierre et Marie Curie)
– Kenneth Neil **Mertens** (IFREMER, Station de Biologie Marine de Concarneau, BP 40537, F-29185 Concarneau Cedex)
– Daniel **Michoux** (Centre Scientifique et Technique Jean-Féger, TOTAL, Pau)
– Aurélie **Penaud** (Laboratoire Domaines Océaniques (LDO), IUEM, Place Nicolas Copernic, Technopôle Brest-Iroise, Université de Bretagne Occidentale, 29280 Plouzané)
– Thomas **Servais** (UMR 8198 Evo-Eco-Paleo, Université de Lille)
– Raffaele **Siano** (IFREMER - Centre de BREST - Dyneco-Pelagos BP70 CS29280 Plouzané)

Institutional Partners

We look forward to seeing you in Bordeaux.

Centenary (1916-2016) of Pollen Analysis and the Legacy of Lennart von Post

A two-day symposium to celebrate 100 years since the first pollen diagram was presented by Lennart von Post and to examine his legacy of the science of pollen analysis and vegetation history

Three themes

PAST – Lennart von Post and pollen analysis

PRESENT – current developments and research

FUTURE – visions for the future

Lectures from 25 scholars who have played important roles in the development of pollen analysis as a tool for the reconstruction and understanding of past climate, vegetation, landscapes, and diversity and the use of this knowledge to address current and future ecological questions

When: **24-25 November 2016**

Where: The Royal Swedish Academy of Sciences, Stockholm

To pre-register contact:
marie-jose.gaillard-lemdahl@lnu.se
before July 31st 2016

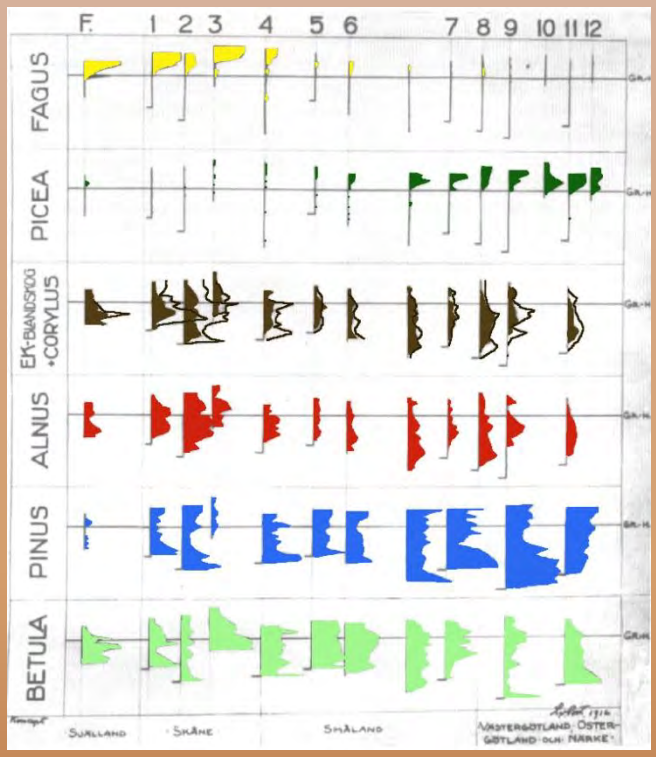
Key-note talks

Past:

- *Björn E Berglund* (Lund, Sweden): Lennart von Post and Scandinavian palynology into the mid-20th century
- *H John B Birks* (Bergen, Norway and London, UK): Lennart von Post and palynology since the 1960s
- *Kevin J Edwards* (Aberdeen, UK): Lennart von Post, palyno-historiography and continuity

Present:

- *Steve Jackson* (Tucson, USA): The pollen record as a long-term ecological observatory
- *Kathy Willis* (Oxford and Kew, UK): biodiversity and conservation biology
- *Anne-Marie Lézine* (Paris, France): A Mid-Holocene ecological crisis in western Africa
- *Henry Hoogheimstra* (Amsterdam, The Netherlands): Palynology and research in Latin America



Von Post's pollen diagram presented at the 1916 Scandinavian scientists meeting in Kristiania

Future:

Round-table discussion on the future of pollen analysis (chair: Henry Hooghiemstra)

Introduction by *Ralph Fyfe* (Plymouth, UK), *Lindsay Gillson* (Cape Town, South Africa), *Steve Jackson* (Tucson, USA), *Anupama Krishnamurthy* (Pondicherry, India), *Anne-Marie Lézine* (Paris, France), and *Matts Lindbladh* (Alnarp, Sweden)

Capacity for 175 participants in addition to the 25 speakers
Contact **marie-jose.gaillard-lemdahl@lnu.se** to register your interest

Björn E Berglund, John Birks, Richard Bradshaw, Anna Broström, Kevin Edwards, Ralph Fyfe, Marie-José Gaillard, Thomas Giesecke, Lindsay Gillson, William Gosling, Eric Grimm, Ulrike Herzschuh, Henry Hooghiemstra, Steve Jackson, Anupama Krishnamurthy, Per Lagerås, Anne-Marie Lézine, Matts Lindbladh, Christer Nordlund, Heikki Seppä, Shinya Sugita, Willy Tinner, Chronis Tzedakis, Kathy Willis, Yan Zhao



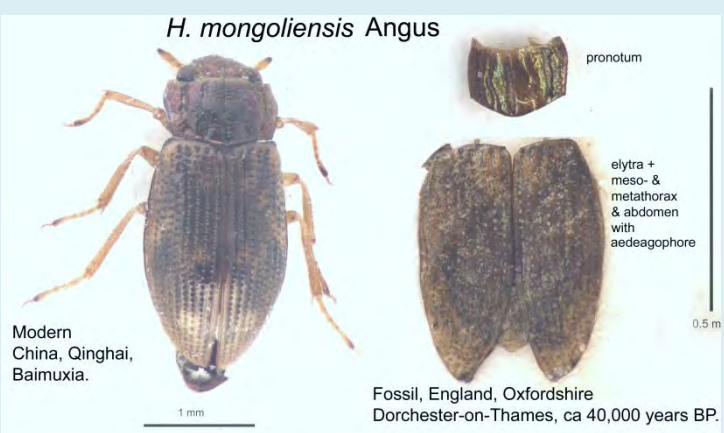
Quaternary Palaeoecology

The Natural History Museum, London is offering a one week course in **Quaternary Palaeoecology**, funded by NERC (w/c 23rd Jan 2017). This training initiative targets NERC-funded PhD students and early-career environmental science researchers who wish to acquire or enhance their understanding of Quaternary palaeoecology in addition to improving their taxonomic expertise.

Summary: A suite of biological groups will be reviewed during the five day short course, covering ***beetles, chironomids, diatoms, pollen, and vertebrates***. Each day will be dedicated to a different group, with morning lectures focussing on the review of taxonomy, the use of biological evidence as proxy indicators, the role these organisms played in Quaternary communities and how they were affected by past climate change. The afternoon sessions will be dedicated to the provision of bespoke laboratory and desk-based activities, with the students being introduced to relevant NHM reference collections and learning the basic taxonomic skills required to differentiate between taxa.

Venue & duration: The Natural History Museum, Cromwell Road, South Kensington, London

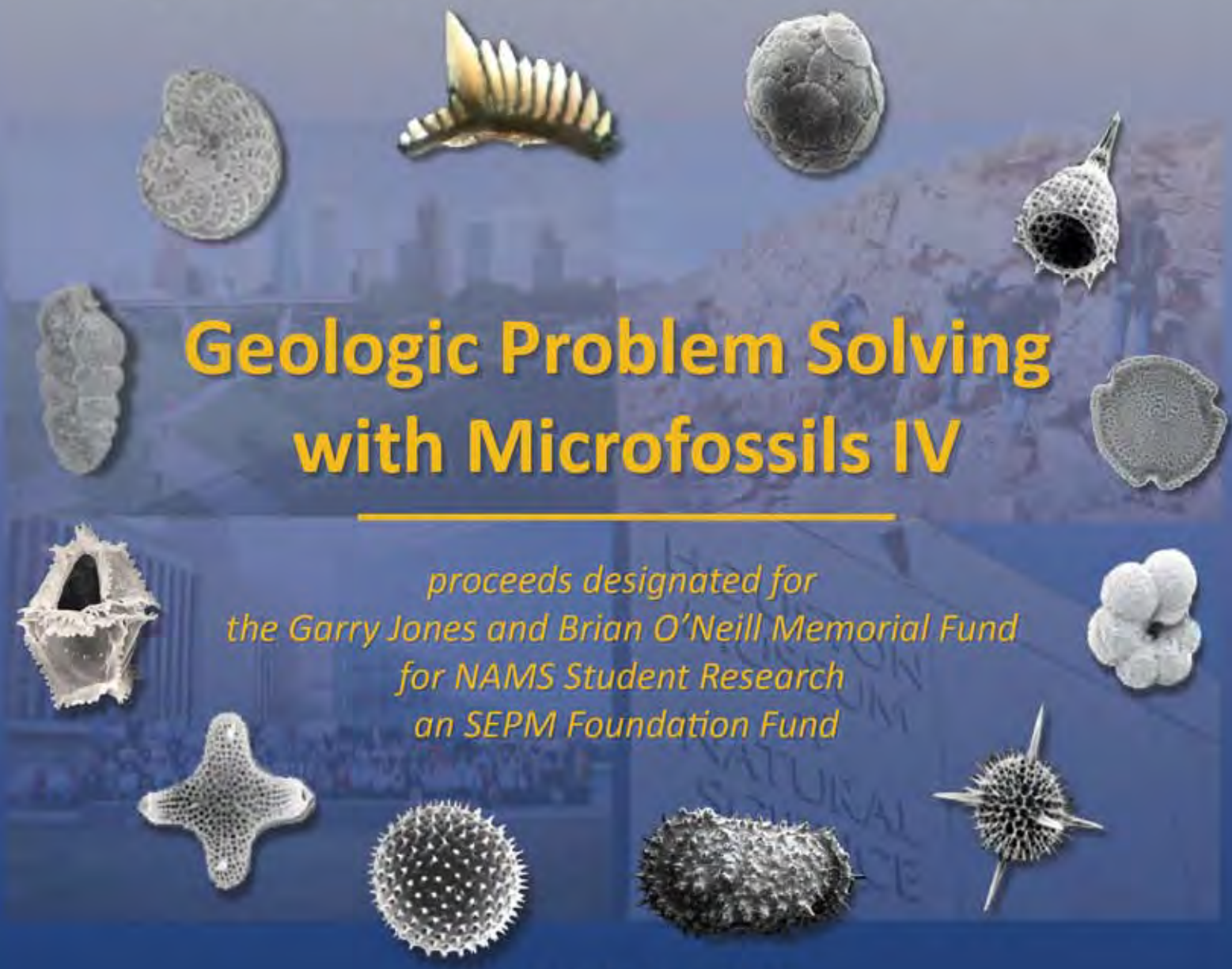
Eligibility: The course is available to all environmental science students, postgraduate researchers and early-career scientists. Priority will however be given to those with NERC funding or whose PhD award was NERC funded. There is a maximum of 12 places available. All course costs, UK travel and accommodation costs are covered. Lunch and light refreshments will also be provided.



How to apply: please download the application form provided and return by the **CLOSING DATE:**
25th November 2016.

For further information please contact:
Tom Hill
(Thomas.Hill@nhm.ac.uk)

CONFERENCE ANNOUNCEMENT:



Geologic Problem Solving with Microfossils IV

proceeds designated for
the Garry Jones and Brian O'Neill Memorial Fund
for NAMS Student Research
an SEPM Foundation Fund

APRIL 5-9, 2017

The Whitehall Houston Hotel
(formerly the Crowne Plaza - Downtown)
Houston, TX - USA

Organized by NAMS/SEPM
(North American Micropaleontology Section)
with support from the
Society for Sedimentary Geology (SEPM)

Managing biostratigraphic data with *PALSYS*.org

A platform for training and knowledge exchange in biogeosciences

Peter K. Bijl
***LPP* Foundation; info@lpp-foundation.nl**

LPP
Laboratory of Palaeobotany & Palynology Foundation

Universiteit Utrecht

Challenges


Retirement


Teaching load


Storage reduction


'Big Data'


Consistency

Data 'ages'

Source: socialworkers.org, jujumamablog.com, realhairtruth.com; mydirectcommercial.com, jkmoving.com

A solution: *PALSYS*.org

The *LPP* Foundation has revived a platform for storage and comprehensive management of biostratigraphic data: *PALSYS*.org.
By signing up for *PALSYS*.org you get:

- All literature-based stratigraphic/taxonomic dinocyst data
- All fully up-to-date and calibrated to the latest GTS
- A large (>20.000) image database, incl. holotypes
- A comprehensive self-study tutorial for students/trainees
- Create your own notes with the species descriptions
- Share/suggest updates to the database
- Upload in-house, confidential sub-databases

PALSYS

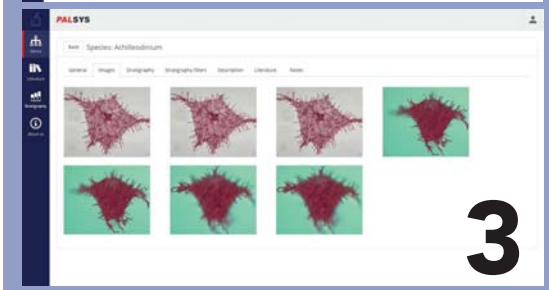
What *PALSYS*.org delivers

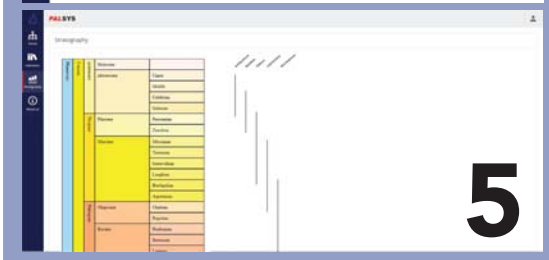
- Preserves biostratigraphic knowledge otherwise lost
- Alleviates teaching/training load and costs by providing a hands-on tool to self-study
- Allows for the reduction of storage space needed for microscope slides and literature hardware
- Presents large datasets of taxonomic and stratigraphic data in a comprehensive way
- Ensures literature is interpreted in a consistent way and based on the latest insights
- Scientific quality control is ensured with a scientific steering committee that advises on bi-yearly updates

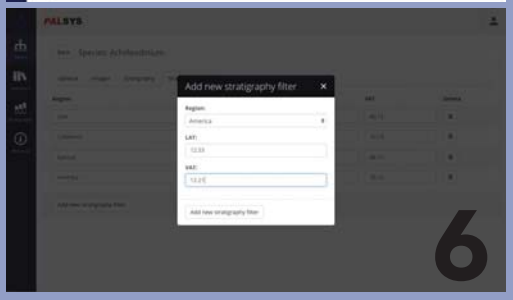
Features and Functionalities

1. Genus- and species list containing all published taxa
2. A clever search- and filter engine based on the suprageneric taxonomic principles of the fossil group
3. An image database (>20.000 images)
4. Their original descriptions, emendations, synonymy, taxonomic status and literature citations
5. The stratigraphic ranges, calibrated to the latest GTS
6. A stratigraphic plotter plots stratigraphic ranges in specific geographic areas and time intervals
7. Advanced print functionalities ensures accessibility of the database in offline mode

All in one platform, fully interactive, always up-to-date







Do you want to...
...get access to *PALSYS*.org?
Have your favorite microfossil added to *PALSYS*.org?
Contact us, see the booth staff and scan the QR codes for more information

See *PALSYS*.org
(under construction)

Like us on Facebook for progress and updates

See lpp-foundation.nl

Managing biostratigraphic data with *PALSYS.org*:

A platform for training and knowledge exchange in biogeosciences

Peter K. Bijl – Director *LPP* Foundation

For more information, see the full proposal at:
http://www.lpp-foundation.nl/_files/LPP%20proposal%20PALSYS_sep2016.pdf